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**Amendments to the Claims**

This listing of claims will replace the originally filed claims in the application.

**Listing of Claims:**

Claims 1 – 7 (canceled).

Claim 8 (new): An apparatus which may be used for stirring and injecting a gas into a liquid located in a container, wherein said apparatus comprises:

- a) a reactor, wherein said reactor contains a liquid;
- b) a drive device located above said reactor, wherein:
  - 1) said drive device comprises a vertical output shaft;
  - 2) said output shaft comprises at least one axial-flow moving assembly; and
  - 3) said axial-flow moving assembly is:
    - i) located at a lower end of said output shaft; and
    - ii) substantially submerged in said fluid;
- c) a cylinder located around said output shaft, wherein:
  - 1) said cylinder comprises both an upper and a lower cylinder end; and
  - 2) said upper cylinder end:
    - i) is substantially sealed to said drive device; and
    - ii) comprises an opening for injecting a gas into an annular gap between said output shaft and said cylinder;
- d) a self-priming impeller, wherein:
  - 1) said impeller is submerged in said liquid and is capable of being driven by said output shaft; and
  - 2) said impeller comprises:
    - i) an upper disk, wherein:
      - aa) said upper disk is perforated with a central hole;
      - bb) the edge of said central hole and said lower cylinder end form an at least partially annular space; and
      - cc) said liquid is sucked into said impeller through said annular space;
    - ii) a lower disk, wherein the surface area of said lower disk is less than the surface area of said upper disk; and
    - iii) a set of radial vanes located between, and attached to, said upper and said lower disks; and

- e) a direction means for directing a gas/liquid dispersion expelled radially from said impeller toward said axial-flow moving assembly.

Claim 9 (new): The apparatus of claim 8, wherein the diameter of said lower disk is less than the diameter of said upper disk.

Claim 10 (new): The apparatus of claim 9, wherein said diameter of said lower disk is greater than or equal to the diameter of said partially annular space.

Claim 11 (new): The apparatus of claim 8, wherein said lower disk is at least partially cut out.

Claim 12 (new): The device of claim 11, wherein said cut out is in the form of an annulus.

Claim 13 (new): The apparatus of claim 8, wherein said axial-flow moving assembly comprises a propeller.

Claim 14 (new): The apparatus of claim 8, wherein:

- a) said directing means comprise a baffle-forming annular casing located around said impeller;
- b) said annular casing directs a stream of said dispersion, radially from said impeller, towards said axial-flow moving assembly; and
- c) said annular casing is perforated with at least two central openings, wherein said openings are coaxial with said output shaft.

Claim 15 (new): The apparatus of claim 8, wherein said axial-flow moving assembly is the final assembly located on said output shaft.